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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,394	12/10/2003	Ju-Yung Lin	ALIP0026USA	1393
27765	7590	12/19/2005	EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			PATEL, NIMESH G	
			ART UNIT	PAPER NUMBER
			2112	
DATE MAILED: 12/19/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/707,394	LIN, JU-YUNG	
	Examiner	Art Unit	
	Nimesh G. Patel	2112	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____.  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____.   | 6) <input type="checkbox"/> Other: ____.                                    |

## DETAILED ACTION

### *Specification*

1. 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are: "tonsmit" and "inteinterfaces" and "somethe" in Paragraph 4.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-3 and 8 rejected under 35 U.S.C. 102(e) as being anticipated by Bolt et al.(US20030154340), hereinafter referred to as Bolt.
4. Regarding claim 1, Bolt discloses a bridge controller comprising: an integrated drive electronics (IDE) slave interface for connecting a first system(Figure 1A, 14); a universal serial bus (USB) interface for controlling a USB device; and a control unit(Figure 1A 14)) electrically connected to the IDE slave interface and the USB interface for bridge controlling transmission data, commands, and status between the IDE slave interface and the USB interface(Paragraph 18).

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5. Regarding claim 2, Bolt discloses a bridge controller wherein the IDE slave interface is electrically connected to the USB interface(Figure 1A).
6. Regarding claim 3, Bolt discloses a bridge controller wherein the USB interface is a USB host interface(Figure 1A, 18).
7. Regarding claim 8, Bolt discloses a bridge controller wherein the control unit is further capable of transforming an IDE transmission data, command, or status inputted from the IDE slave interface into a USB transmission data, command, or status and outputting it to the USB interface; and transforming a USB transmission data, command, or status inputted from the USB interface into an IDE transmission data, command, or status, and outputting it to the IDE slave interface(Paragraph 18).

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 4 and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bolt, in view of admitted prior art, hereinafter referred to as APA.
10. Regarding claim 4, Bolt does not specifically disclose a bridge controller wherein the USB interface is a USB on-the-go (OTG) interface. However, APA discloses a USB interface as an USB OTG interface(Paragraph 5). Therefore it would have been obvious to one of ordinary skill in the art to use an USB OTG interface in the system of Bolt since this would enable Bolt's bridge system to act as a USB host.

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11. Regarding claims 9-13, Bolt does not specifically disclose a bridge controller wherein the first system is a chipset of an AV system, an information system, a VCD player, a DVD player, or of a portable AV system. However APA discloses these systems are commonly used to utilize the convenience of USB devices. Therefore it would have been obvious to one of ordinary skill in the art to use these systems to connect to the bridge controller so that the convenience of USB devices can be utilized.

12. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bolt.

13. Regarding claims 5-7, Bolt does not specifically disclose the control unit being an embedded processor, programming code, or a state machine. However, Official Notice is being taken that an embedded processor, programming code, and a state machine are well known in the art to be used to perform functions for devices. It would have been obvious to one of ordinary skill in the art to use an embedded processor, programming code, or a state machine to perform the functions of control unit.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nimesh G. Patel whose telephone number is 571-272-3640. The examiner can normally be reached on M-F, 8:30-6:00.

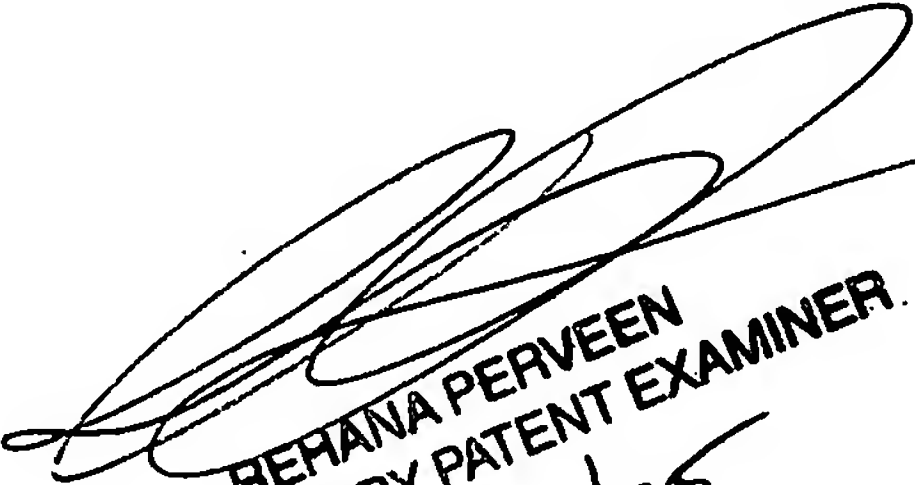
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nimesh G Patel  
Examiner  
Art Unit 2112

NP  
December 12, 2005

  
REHANA PERVEEN  
SUPERVISORY PATENT EXAMINER  
12/12/05